

ABSTRACT OF THE DISCLOSURE

5 Novel 4-1BB ligand (4-1BB-L) polypeptides and a human cell surface receptor
designated 4-1BB that binds 4-1BB-L are provided. Isolated 4-1BB-L-encoding and
human 4-1BB-encoding DNA sequences, recombinant expression vectors comprising the
isolated DNA sequences, and host cells transformed with the recombinant expression
vectors are disclosed, along with methods for producing the novel polypeptides by
10 cultivating such transformed host cells. Soluble forms of the 4-1BB-L or 4-1BB
polypeptides are derived from the extracellular domains thereof.